



First Workshop of Task 2.4: HARMONIZING NEW NETWORK SENSORS

Location IFREMER
December 13-14 2016

Aim of the workshop:

The JERICO-Next network is implementing a variety of sensors for a number of biogeochemical measurements. Furthermore, systems for coastal profiling can help to integrate indispensable information on water column characteristics in coastal areas.

Task 2.4 deals with the harmonization of these sensors and systems, including their underlying technologies. In this first workshop the status of sensors used for measuring biology related optical properties, variables of the marine carbonate system, and systems for coastal profiling within the JERICO-Next network will be presented and discussed. The main objectives are the following:

- Discuss and report on the present level of implementation of such sensors and systems within the JERICO-Next network from the perspectives of:
 - o the state-of-the-art and use
 - o current modes of deployment
 - o capabilities and limitations
 - o data quality concerns
- Discuss and agree on the structure and contents of Deliverable D2.2: *“Report on the status of sensors used for measuring nutrients, biology-related optical properties, variables of the marine carbonate system, and for coastal profiling, within the JERICO network and, more generally, in the European context”* (D2.2, MS18 - February 2017).
- Agree on the respective responsibilities of the involved partners in relation to the preparation of D2.2.

Expected participants

Name	Organization
Rajesh Nair	OGS
Wilhelm Petersen Klas Möller	HZG
Jukka Seppälä	SYKE
Anna Willstrand Wranne	SHMI
Kai Sørensen Emanuele Reggiani	NIVA
Manolis Ntoumas	HCMR
Carolina Cantoni Stefania Sparnocchia	CNR-ISMAR
Sylvie Pichereau Ingrid Puillat Laurent Delauney Pascal Lazure Louis Marie Patrick Farcy Loïc Quéméner	IFREMER
Felipe Artigas	CNRS
Henning Wehde	IMR
Jean Michel Grisoni	OOV
Hausot Andreas	FLUIDION

Tuesday afternoon December 13, 2016

Workshop on Subtask 2.4.3: Sensors for Parameters of the Marine Carbonate System (lead NIVA)

From - to	Title
14:00-14:15	Quick overview of activities in JERICO-Next WP2, including relevant deliverables (Rajesh Nair OGS)
14:15-14:30	Task 2.4 Objectives and outcomes (Wilhelm Petersen HZG)
14:30-14:50	Continuous pH and pCO ₂ measurements in Utö observatory, Baltic Sea (Jukka Seppälä, SYKE,FMI)
14:50-15:10	Experiences and tests with the CONTROS Hydro-FIA TA analyzer for total alkalinity in seawater (Wilhelm Petersen HZG)
15:10-15:30	Underway CO ₂ system monitoring at SMHI (Anna Willstrand Wranne, SHMI)
15:30-16:00	Coffee Break
16:00-16:20	Underway measurements with the pCO ₂ sensor from Franatech (Kai Sørensen, NIVA, tbd)
16:20-16:40	Combined UV VIS spectrophotometry in situ: challenges behind direct carbonate system determination in situ" (Emanuele Reggiani, NIVA)
16:40-17:00	Continuous pCO ₂ measurements from the Paloma platform in the Northern Adriatic Sea (Carolina Cantoni, CNR)
17:00-17:20	Combined electrode and spectrophotometric technology for pH determination (Hausot Andreas, FLUIDION)
17:20-18:00	Discussion on D2.2., decisions, formation of working groups and next steps (all)
18:00-18:20	Discussion on issues of Task 3.5: Combined Sensors for the Carbonate System (Emanuele Reggiani, NIVA; Laurent Delauney, IFREMER)

Wednesday morning December 14, 2016

Workshop on Subtask 2.4.2: Optical Sensors for Biological Parameters (lead SYKE)

From - to	Title
9:00 - 9:15	Quick overview of activities in JERICO--Next WP2, including relevant deliverables (Rajesh Nair OGS)
9:15 - 9:30	Task 2.4 Objectives and outcomes (Wilhelm Petersen HZG)
9:30 - 9:50	Overview and outcomes of the workshops in Wimereux and Gothenburg (Jukka Seppälä, SYKE)
9:50 -10:10	Towards Deliverable 2.2.: T2.4.2 Content and responsibilities of partners (Jukka Seppälä, SYKE)
10:10-10:20	Scanning flow cytometers (Felipe Artigas, CNRS)
10:20-10:30	Imaging flow systems (Laurent Delauney, IFREMER)
10:30-11:00	Coffee break
11:00-11:10	LED fluorometers (Jukka Seppälä, SYKE)
11:10-11:20	Spectral fluorescence (Felipe Artigas, CNRS)
11:20-11:30	Spectral absorption (Klas Möller, HZG)
11:30-11:40	Spectral reflectance (Kai Sørensen, NIVA / Jukka Seppälä, SYKE, tbd)
11:40-11:50	Fluorescence induction (tbd)
11:50-12:00	Turbidity (Kai Sørensen, NIVA)
12:00-12:45	Discussion on D2.2, decisions, formation of working groups and next steps, other items

Wednesday afternoon December 14, 2016

Workshop on Subtask 2.4.4: Sensor Systems for Coastal Profiling (lead CNR-ISMAR)

From - to	Title
14:00-14:10	Task 2.4 objectives and outcomes (W. Petersen HZG)
PART I - Coastal profiling systems (floats and fixed stations)	
14:10-14:30	Mastodon system (Pascal Lazure, IFREMER)
14:30-14:50	JELAB: JERICO Extended Lagrangian Bio-Geo-profilers (Manolis Ntoumas, HCMR)
14:50-15:10	YOYO trawl-secured profiling system (Henning Wehde, IMR)
15:10-15:30	Coastal Profiling floats feedback (Louis Marie, IFREMER)
15:30-16:00	Coffee Break
16:00-16:20	EOL Profiling buoy (Jean Michel Grisoni, OOV)
PART II - Fishing vessel-based systems	
16:20 -16:40	Fishing vessel based systems (RECOPECA) (Loïc Quéméner, IFREMER)
16:40-17:00	The Fishery and Oceanography Observing System (FOOS) (Stefania Sparnocchia, CNR-ISMAR)
PART III – Discussion	
17:00-17:30	Discussion on D2.2, decisions, formation of working groups and next steps other items

Venue

155, rue Jean-Jacques Rousseau
92138 Issy-les-Moulineaux

Tel. +33 (0) 1 46 48 21 00



List of the closest hotels:

Ibis Hotel: <http://www.ibis.com/fr/hotel-7848-ibis-paris-issy-les-moulineaux-val-de-seine/index.shtml>

Ibis budget Hotel: <http://www.ibis.com/fr/hotel-2596-ibis-budget-issy-les-moulineaux-paris-ouest/index.shtml>

Access to Ifremer, in Issy-les-Moulineaux

From ROISSY/CHARLES DE GAULE airport: take the RER B, going to Paris and change at SAINT-MICHEL-NOTRE-DAME (right after CHATELET- LES-HALLES). Then take RER C, going to VERSAILLES RIVE GAUCHE or SAINT QUENTIN EN YVELINES and get off at ISSY (only trains VICK, VERO, KUMA, SLOW, VONY or SOLE stop at ISSY). The frequency between trains VICK, VERO KUMA, SLOW, VONY or SOLE is around 15 minutes.

From ORLY airport: take the ORLY VAL to ANTONY, then take the RER B, going to PARIS, change at SAINT-MICHEL-NOTRE-DAME then take RER C (only train VICK, VERO, KUMA, SLOW, VONY or SOLE) going to VERSAILLES RIVE GAUCHE or SAINT QUENTIN EN YVELINES and get off at ISSY.